

QUARTER TURN VALVES

QF Series

METAL SEATED BUTTERFLY VALVES

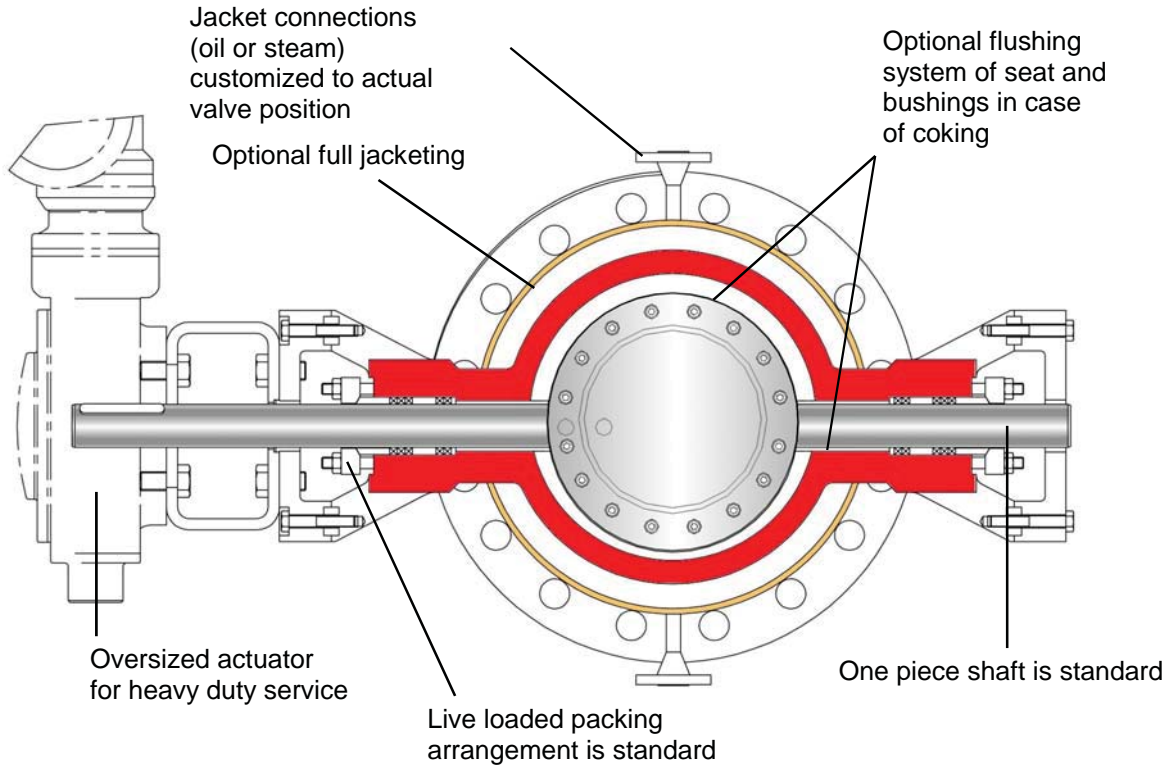


HIGH PERFORMANCE BUTTERFLY VALVES

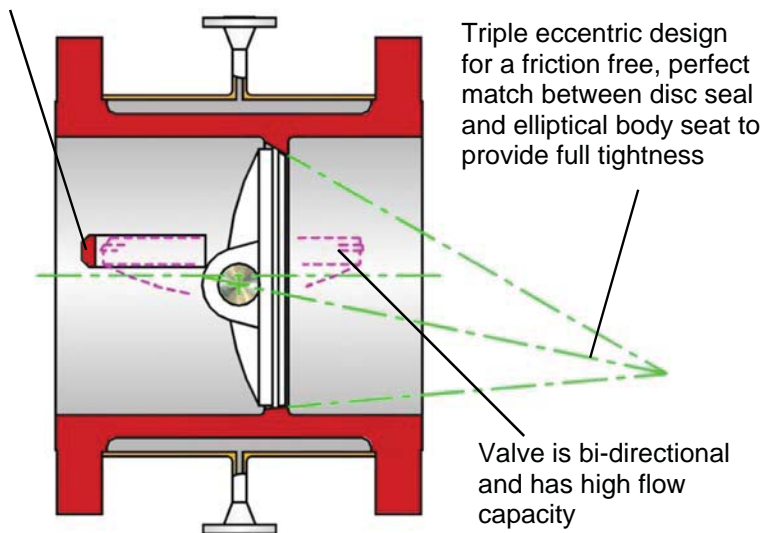
Code: QFTM

Triple Eccentric Butterfly Valve

Fire safe tested- API 6FA



Optional shield for protection of the disc seal against high velocity medium



Flanged Type

Fig. 630



Fig. 635

Wafer Type

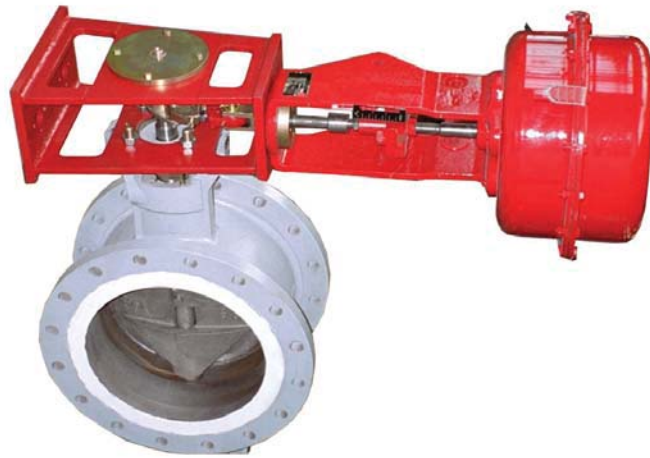
United Process Valves designs and manufactures metal seated high performance Butterfly Valves. Their main application is isolation of process lines in refinery and petrochemical plants. These valves must provide absolute tight shut-off and must be reliable because of safety of the production unit depends on these “key-equipment” valves.

Applications include: block valves in ethylene transfer lines to isolate the heater, block valves for ethylene de-coking lines or as isolation valves in cryogenic conditions such as LNG units.

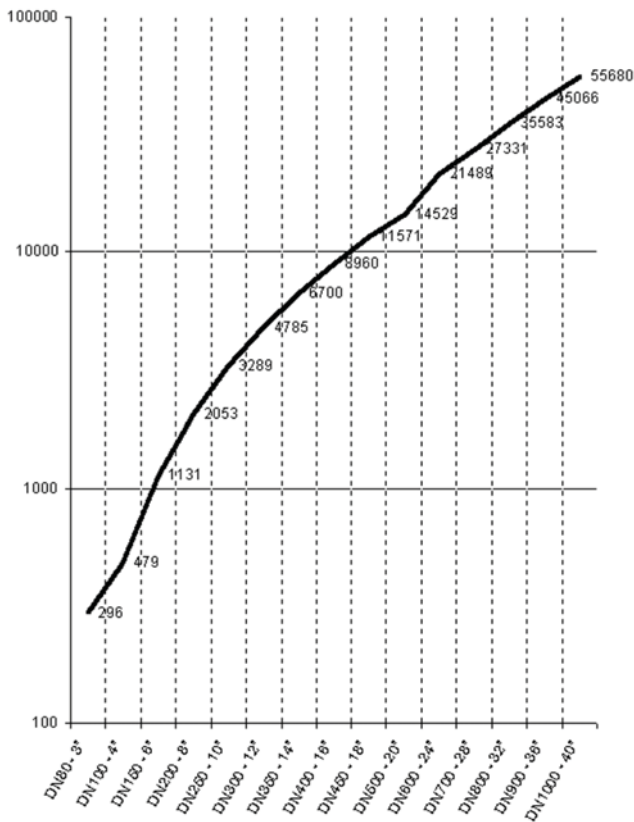
Typical Graphite / 316 Lamellar Seal



Flanged body arrangement



Typical CV values



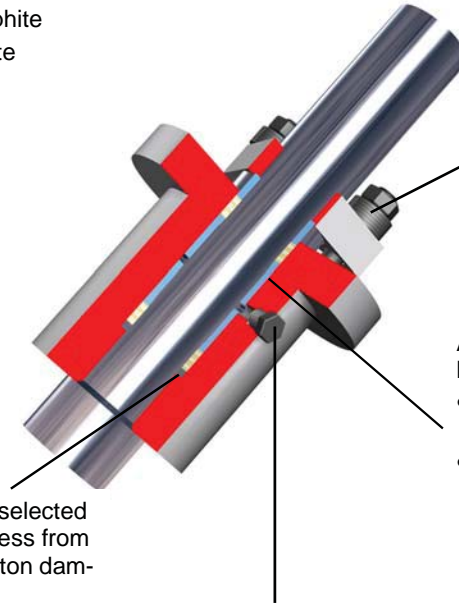
Wafer type body arrangement



PACKING DEFINITION

Typical Packing Materials:

- PTFE
- PTFE / Aramide Braid
- Carbon / Graphite Braid
- Graphite Braid
- PTFE / Aramide Braid + Graphite
- Lamellar + Expanded Graphite
- Pure Graphite



Live loaded packing arrangement minimizes maintenance

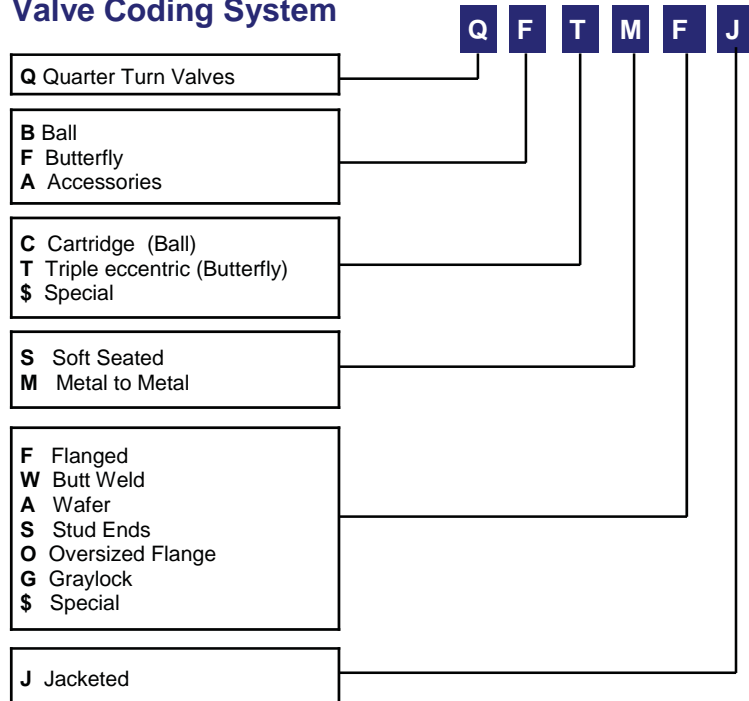
All packing arrangements use a lantern ring that:

- Provides better stem piston guiding
- Avoids dead space in body cavities

Bottom ring material is selected with a differential hardness from the piston to prevent piston damage

Optional 1/4 inch NPTF can be used for leak detection or inert gas injection to avoid leakage to atmosphere by creating an over pressure

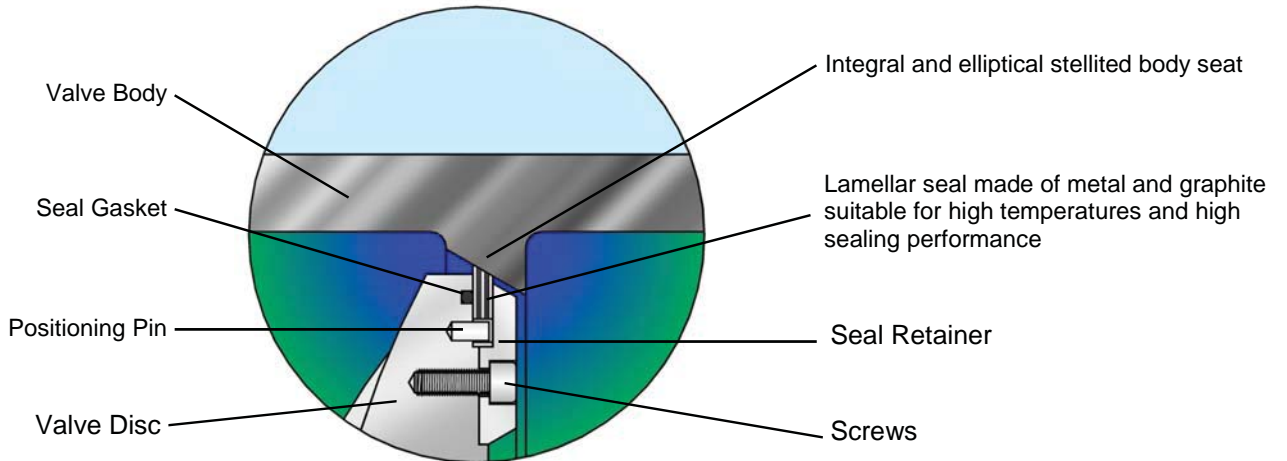
Valve Coding System



NOTE: Some combinations may not be compatible

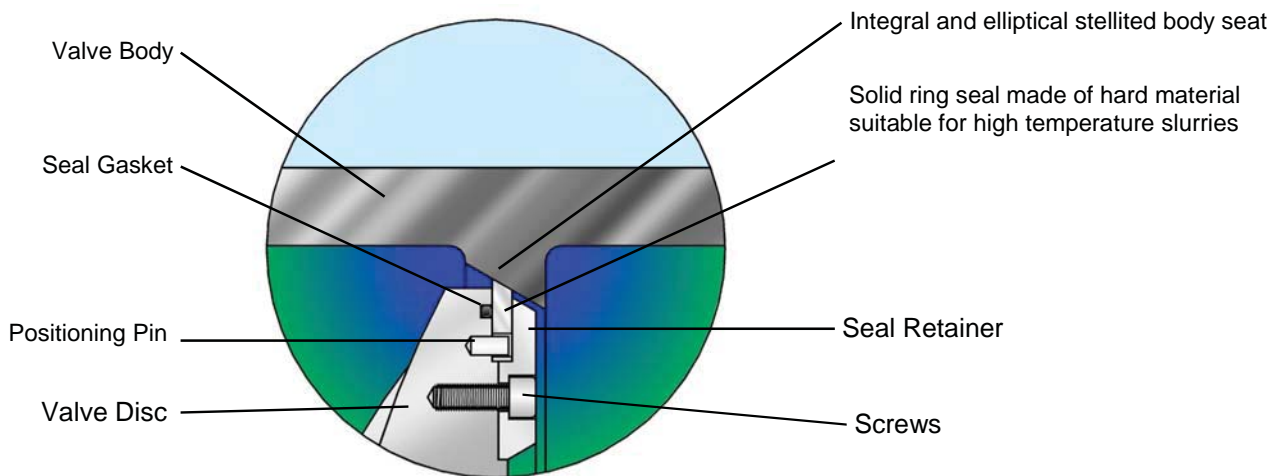
SEALING SYSTEMS

Lamellar Seal



Temperature	
Minimum:	-200° C / -330° F
Maximum:	550° C / 1000° F
Pressure (Differential)	
Maximum:	100 bar / 1450 psig

Solid Seal



Temperature	
Minimum:	-50° C / -60° F
Maximum:	650° C / 1200° F
Pressure (Differential)	
Maximum:	100 bar / 1450 psig

RANGE DEFINITION

QF Manufacturing Range	PN 10	PN 16	PN 20— 150 lbs.	PN 25	PN 40	PN 50 300 lbs.	PN64 400 lbs.	PN 100 600 lbs.	PN 150/160-900 lb	PN 250 -1500 lb	PN 320	PN 420—2500 lb	PN 630 —4500 lb
	3/8"- DIN10												
1/2"- DIN15													
3/4"- DIN20													
1"- DIN25													
1 1/4"- DIN32													
1 1/2"- DIN40													
2"- DIN50													
2 1/2"- DIN65													
3"- DIN80													
4"- DIN100													
5"- DIN125													
6"- DIN150													
8"- DIN200													
10"- DIN250													
12"- DIN300													
14"- DIN350													
16"- DIN400													
18"- DIN450													
20"- DIN500													
24"- DIN600													
28' - DIN700													
32" - DN800													
36" - DN900													
40" - DN1000													
44" -DN1100													
48" - DN1200													

Limited differential Pressure

TECHNICAL & GENERAL INFORMATION

Design Code & Construction

- Design standard compliant with ASME B16.34
- International standards include ANSI, DIN, JIS, API etc.
- Wide range of material selections including carbon steel / stainless steel / Titanium / Hastelloy / Duplex / Monel / Tantalum / Zirconium
- Fabricated, cast, forged and bar stock designs
- Combinations of fabricated, sand and investment casings, and bar stock available

Surface Finish

- For polymer applications, United Process Valves recommends a surface finish of Ra 0.4 for all parts are in contact with the medium

Quality assurance & testing

- ISO 9001 compliant
- PED / ATEX / CE marking
- ISO 15848 1 & 2, low emission testing and certification available
- Standard testing procedures

LINE & BRANCH CONNECTIONS



Flanges
ANSI, DIN, JIS

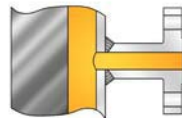


Studded
Ends

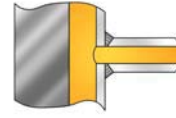


Butt
Weld

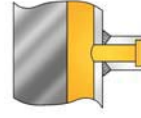
JACKET CONNECTIONS



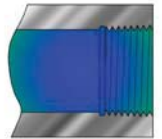
Flanges
ANSI, DIN, JIS



Butt Weld



Socket Weld



Threaded
Connections
(NPT & ANSI)

ACTUATION OPTIONS



Handle Lever



Bevel or Worm Gear



Electric Actuator



Double or single acting Air Cylinder



Hydraulic Cylinder

The Strahman United Process Valves products include:

PISTON TYPE SAMPLING VALVES

Strahman United Process Valves has a full line of sampling valves that produce live samples without exception. Our sampling valves unique design prevent failure caused by sediment or clogging.

PISTON TYPE DRAIN VALVES

Strahman United Process Valves Drain Valves are designed to prevent clogging. They are ideal for use in liquid and gas service or with slurries, polymers, and high viscosity fluids that tend to solidify at room temperature.

PISTON & DISC TYPE IN-LINE VALVES

Strahman United Process Valves Piston and Disc Type In-Line Valves alternative to a failing ball, plug or gate valve. With a wide range of positive sealing systems like M Seal, M Ring Seal and M Control, these valves provide superior in-line tightness. When opening the piston or disc it retracts completely into the valve body providing an unrestricted full flow

PISTON & DISC TYPE DIVERTER VALVES

Strahman United Process Valves Diverter Valves are designed to divert process flows with high and low viscosity. They are dead space free to prevent clogging. They are ideal for use in liquid and gas service or with slurries, polymers, and high viscosity fluids that tend to solidify at room temperature.

SINGLE & DOUBLE DISC SLAB GATE VALVES

Strahman United Process Valves Single & Double Disc Slab Gate Valves are specifically designed for use in transfer line and decoking valves for ethylene cracking units and isolation applications in FCCU (fluid catalytic cracking unit) and DCU (delayed coker unit) plants. The safety and continuous production of process plants often depend on the reliability of these "key-equipment" valves.

LINE BLINDS

Strahman United Process Valves Line Blinds provide zero leakage down stream and total isolation on process pipelines, vessels, and maritime applications. No pipeline movement is required when blind position is changed.

Please contact your local Strahman United Process Valves representative
for further details or

visit our website : www.strahman-unitedprocessvalves.com



Established 1986

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ISO 9001 Certified

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